

# SCHOOL DISTRICT OF MCFARLAND

## CURRICULUM OVERVIEW



### Seventh Grade

This overview is designed to provide information to parents about what is taught in the School District of McFarland in seventh grade. It does not list everything students are taught or all things which students experience. Instead, for each content area, it highlights some state standards and major skills or units that students are taught. For a more in-depth overview, please contact your child's classroom teacher.

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# SEVENTH GRADE

## MATH:

### Core Connections 2

Students will:

- \* Analyze proportional relationships and use them to solve real-world problems.
- \* Apply and extend previous understandings with rational numbers and know about and approximate numbers that are not rational.
- \* Use properties to operations to generate equivalent expressions.
- \* Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- \* Draw, construct and describe geometrical figures and describe the relationship between them.
- \* Solve real-world and mathematical problems involving angle measure, area, surface area, and volume; including cylinders, cones and spheres.
- \* Use random sampling to draw inferences about a population and draw informal comparative inferences about two populations.
- \* Investigate chance processes and develop, use, and evaluate probability models.

### Core Connections 3

Students will:

- \* Know that there are numbers that are not rational and approximate them by rational numbers.
- \* Work with radicals and integer exponents.
- \* Understand the connection between proportional relationships, lines, and linear equations.
- \* Solve linear equations and pairs of simultaneous linear equations.
- \* Define, evaluate, compare, and use functions to model relationships between quantities.
- \* Understand congruence and similarity using physical models, transparencies, or geometry software.
- \* Understand and apply the Pythagorean Theorem.
- \* Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.
- \* Investigate patterns of association in bivariate data.

### Core Connections Algebra 1

Students will:

- \* Interpret functions given graphically, numerically, symbolically, and verbally; translate between representations; and understand the limitations of various representations.
- \* Create these representations with linear, quadratic and exponential functions.
- \* Have a formal means of assessing how a model fits data.

### Core Connections Geometry

Students will:

- \* Understand, apply and prove geometric theorems and constructions.
- \* Understand and apply transformations, similarity, and trigonometry to shapes.
- \* Express geometric properties with equations.
- \* Visualize, model, explain, and sue relationships between two-dimensional and three-dimensional objects.
- \* Understand and use the rules of probability to interpret data and make decisions.

#### Areas of Study:

- \* Ratios and Proportional Relationships
- \* Number System
- \* Expressions and Equations
- \* Geometry
- \* Statistics and Probability

## READING/LANGUAGE ARTS

Students will:

- \* Use effective reading strategies
- \* Read, interpret & critically analyze literature
- \* Read to understand the human experience
- \* Read to acquire information
- \* Create writing for a variety of audiences & purposes
- \* Understand the grammar and usage of standard American English
- \* Communicate orally, discuss effectively
- \* Recognize and interpret various uses and adaptations of language
- \* Analyze & edit media work
- \* Conduct research & inquiry on self-selected or assigned topics, issues, or problems

#### Areas of Study:

- \* Reading – Guided & Independent
  - Comprehension strategies
  - Word Study
- \* Writing – Paragraph/Compositional/
  - Journal/On-demand (narrative, expository, descriptive, persuasive)
- \* Speaking/Listening

#### Themes/Genres for Class

- \* Realistic fiction
- \* Science fiction/the future
- \* Peer relations/family
- \* Justice/human rights
- \* Inquiry-based research
- \* Non-fiction

## SCIENCE

Students will:

- \* Understand there are unifying themes in science
- \* Understand science is ongoing & inventive
- \* Investigate questions using scientific methods & tools.

#### Areas of Study:

- \* Biology: Cells
- \* Physical Science (forces, motion)
- \* Space Science
- \* Human Body Systems
- \* Intro. to Chemistry / Atoms
- \* Animal Kingdom

## SOCIAL STUDIES

Students will:

- \* Explore Pre-History, Mesopotamian, Roman, and Greek Ancient Civilizations.
- \* Explore European History from the Early Roman Empire through the Protestant Reformation.
- \* Explore Ancient Civilizations of the Americas and visit Aztalan in Lake Mills
- \* Explore current events throughout the world, nation, and state.

#### Areas of Study:

- \* Geography
- \* The Renaissance
- \* Ancient Civilizations
- \* Age of Reformation
- \* Rise of Christianity
- \* Byzantium and Rise of Islam

# SEVENTH GRADE

## ARRE TIME / DEVELOPMENTAL GUIDANCE

### Areas of Study:

- \* Building Community
- \* Charting Your Course
- \* Asset Building
- \* Affected Family Members
- \* Empathy for People with Disabilities
- \* Aging, Death and Dying
- \* Respect and Tolerance
- \* Communicating Positively with Family

## ART

7th grade artists will continue the pursuit of purposeful image making. They will explore artistic conventions and learn new skills and techniques.

### Areas of Study :

- \* Printmaking
- \* Landscapes
- \* Ceramics
- \* Paper Collage
- \* Text Design
- \* Weekly Sketchbook Assignments

## FAMILY CONSUMER SCIENCES

Students will: Use critical thinking skills to achieve success in a variety of units and in everyday life.

### Areas of Study:

- \* Empathy
- \* Clothing Care
- \* Nutritional Choices
- \* Sewing an individual project in class
- \* Financial Literacy

## HEALTH

### Areas of Study:

- \* Model of Health & Well-being
- \* Hygiene
- \* Stress Management
- \* Digital Citizenship
- \* Alcohol, Tobacco, & Other Drugs
- \* Mental Health
- \* Suicide Prevention
- \* Community First Aid & Safety
- \* Alcohol, Tobacco, & Other Drugs
- \* Human Growth and Development
- \* Sexual Harassment

## INFORMATION LITERACY

Students will:

- \* Research topics across curricular areas
- \* Use library, media & technology for solving problems, etc.
- \* Access, evaluate, & apply information from a variety of sources.
- \* Be encouraged to develop a life-long interest in reading.
- \* Use library/media/technology to access, organize, create, communicate information
- \* Demonstrate the ability to work collaboratively & use information & technology responsibly.
- \* Systematically process resources to accomplish outcomes & evaluate their appropriateness.
- \* Creatively define problems and identify opportunities, plan and gather information, explore alternatives, implement viable options, and evaluate, defend, and communicate outcomes based on technological knowledge.

### Areas of Study:

- \* Location of library materials for research and problem solving
- \* Book talks of award-winning titles
- \* Research skills

## MUSIC: Vocal and Instrumental

Students will:

- \* Sing a varied repertoire of music.
- \* Play varied instruments.
- \* Improvise/compose/arrange music (music composition).
- \* Read/notate/analyze/describe music (music theory).
- \* Evaluate music & performances
- \* Relate music to other arts & disciplines
- \* Relate music to history & culture (music history).

Opportunities/Experiences include:

- \* General Music
- \* Choir: Cambiata and Treble Choirs
- \* Orchestra
- \* Concert Band
- \* Marching band
- \* Fiddles on Fire
- \* Jazz Ensemble
- \* Local/District Solo/Ensemble Festival

## PHYSICAL EDUCATION

Students will:

- \* Exhibit a physically active lifestyle.
- \* Understand that physical activity provides opportunities for enjoyment, challenge, self-expression & social interaction.
- \* Develop agility, strength, skill, & endurance.
- \* Gain further understanding of health, exercise, & conditioning

### Areas of Study:

- \*Badminton \*Basketball \*Cooperative games \*Fitness Testing
- \* Floor Hockey \* Football \* Pickle ball \* Soccer \* Softball
- \* Swimming \* Track and Field

## TECHNOLOGY AND ENGINEERING

Students will:

- \* Draw parts in 2-D and convert them to 3D using 123 Design software/app.
- \* Design objects for printing with a 3-D printer.
- \* Develop basic skills for hand and power tool use.
- \* Design and build a small race car from pine, aluminum and plastic parts.
- \* Work in cooperative groups to design and build a paper roller coaster.
- \* Understand changes in kinetic and potential energy as a marble moves through the roller coaster.

## WORLD LANGUAGES

### French I or Spanish I

Serves as the beginning of Level I in the language and is a pre-requisite to continue in 8<sup>th</sup> grade.

Students will:

- \* Learn about French or Spanish culture while building a foundation in listening, reading speaking, & writing in the target language.
- \* Utilize technology as a means to develop proficiency in the target language.